

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 September 2000 (08.09.2000)

PCT

(10) International Publication Number
WO 00/52618 A3

(51) International Patent Classification⁷: **G06F 17/30**

(21) International Application Number: **PCT/US00/05080**

(22) International Filing Date: 29 February 2000 (29.02.2000)

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
09/260,079 2 March 1999 (02.03.1999) **US**

(71) Applicant: **AURIGIN SYSTEMS, INC.** [US/US]; 10710 North Tantau Avenue, Cupertino, CA 95014-0717 (US).

(72) Inventors: **RIVETTE, Kevin, G.**; 2165 Waverley Street, Palo Alto, CA 94303 (US). **RAPPAPORT, Irving, S.**; 1500 Edgewood Drive, Palo Alto, CA 94303 (US). **HOHMANN, Luke**; 306 Windmill Park Lane, Mountain View, CA 94043 (US). **PUGLIA, David**; 17429 East Vineland Avenue, Los Gatos, CA 95030 (US). **DEWOLFE, Andrew, S.**; 242 Acalanes Drive #11, Sunnyvale, CA 94086 (US). **GORETSKY, David**; 272

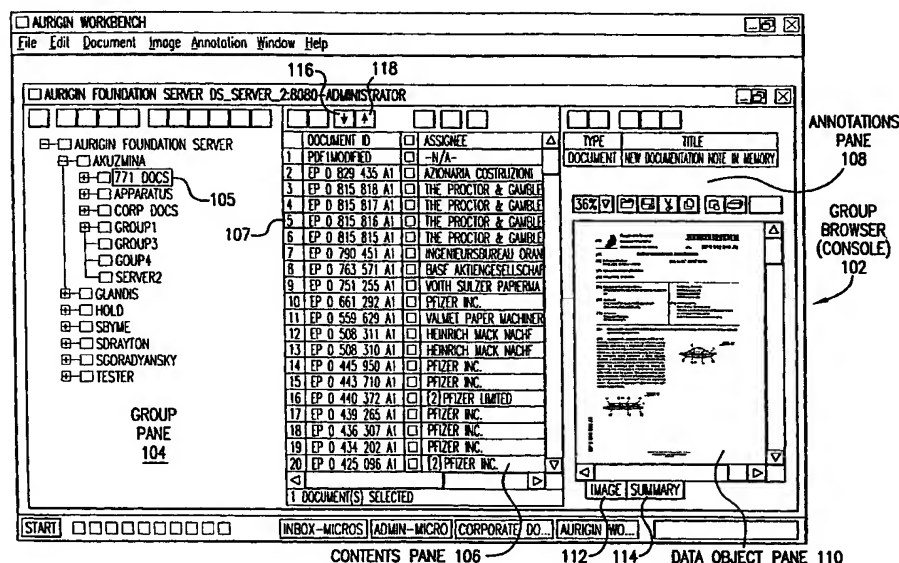
Waverly Street, Sunnyvale, CA 94086 (US). **JACKSON, Adam**; 1063 Morse Avenue #7-107, Sunnyvale, CA 94089 (US). **KUROWSKI, Scott**; 1038 Corvette Drive, San Jose, CA 95129 (US). **PARK, Brian**; 2636 Ponce Avenue, Belmont, CA 94002 (US). **RABB, Charles, Jr.**; 730 East Evelyn #638, Sunnyvale, CA 94086 (US). **ROSEN-QUIST, Brent**; 1668 Kennard Way, Sunnyvale, CA 94087 (US). **SCHNITZ, Matthew**; 2558 Mardell Way, Mountain View, CA 94043 (US). **SMITH, David, W.**; 3 Morning Sun Court, Mountain View, CA 94043 (US). **PARADAN, Thierry**; 1058 Paintbrush Drive, Sunnyvale, CA 94086 (US). **BASHSHUR, Noura**; 306 Windmill Park Lane, Mountain View, CA 94043 (US).

(74) Agents: **LEE, Michael, Q.** et al.; Sterne, Kessler, Goldstein & Fox P.L.L.C., Suite 600, 1100 New York Avenue, N.W., Washington, DC 20005-3934 (US).

(81) Designated States (*national*): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

[Continued on next page]

(54) Title: **INTELLECTUAL PROPERTY ASSET MANAGER (IPAM) FOR CONTEXT PROCESSING OF DATA OBJECTS**



(57) Abstract: Context data processing is described herein. One or more contexts are selected. Each context includes one or more attributes, and a plurality of data objects that satisfy the attributes. A list of data objects contained in the selected contexts is displayed. At least some of the data objects in the selected contexts are processed. Such processing may involve generating claim trees, citation trees, and data object families, which may be displayed using hyperbolic trees. In an embodiment, the contexts are groups. In other embodiment, the contexts are each associated with a data object type. In this latter embodiment, the contexts include data objects of their respective data object types.



(84) **Designated States** (*regional*): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(88) **Date of publication of the international search report:**

26 April 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *With international search report.*

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/05080

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 55945 A (SMARTPATENTS INC) 10 December 1998 (1998-12-10)	1-22, 29-34
X	page 36-37, 50, 109	1
X	figures 117,118	
X	page 53, 105-109	2
X	figure 149	
X	page 36 -page 38	3-5,31
X	page 41	6
X	page 250 -page 256; figure 171	9-13
X	abstract	7,8,14, 15,34
X	page 217 -page 220; figures 125,134	16-20, 22,32,33
X	page 3	21
X	page 127	29,30
	--- -/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

10 August 2000

Date of mailing of the international search report

18. 12. 00

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Triest, J

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 00/05080

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SIBLEY J F: "The EPOQUE Suite of Applications" WORLD PATENT INFORMATION,GB,ELSEVIER SCIENCES PUBLISHING, BARKING, vol. 18, no. 3, 1 September 1996 (1996-09-01), pages 141-148, XP004037798 ISSN: 0172-2190 page 145 -page 148 ---	1,2
A	WILLIAMS J ET AL: "STN Easy: point-and-click patent searching on the World Wide Web" WORLD PATENT INFORMATION,GB,ELSEVIER SCIENCES PUBLISHING, BARKING, vol. 19, no. 3, 1 September 1997 (1997-09-01), pages 161-166, XP004096059 ISSN: 0172-2190 the whole document ---	1
A	SIBLEY J F: "STN Express 4.0, a professional software for successful online searches" WORLD PATENT INFORMATION,GB,ELSEVIER SCIENCES PUBLISHING, BARKING, vol. 19, no. 1, 1 March 1997 (1997-03-01), pages 73-75, XP004062034 ISSN: 0172-2190 page 73, column 2 -----	1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 00/05080

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-22, 29-34

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: 1-22,29-34

1.1. Claims: 1,2

a computer implemented method of enabling review of patents

1.2. Claims: 3-22, 31-34

a method of context data processing

1.3. Claims: 29-30

a method of assignee name processing

2. Claims: 23-28,35-37

a system for data-processing with plug-in expandibility

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 00/05080

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9855945 A	10-12-1998	US 5991751 A	23-11-1999
		AU 7953198 A	21-12-1998
		EP 0986789 A	22-03-2000
